



6CB6

SHARP-CUTOFF PENTODE

MINIATURE TYPE

6CB6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts
Current 0.3 amp

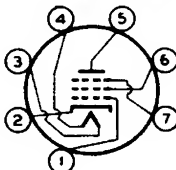
Direct Interelectrode Capacitances:

	Without External Shield	With External Shield ^o	
Grid No.1 to plate	0.020 max.	0.010 max.	μmf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	6.5	6.5	μmf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	1.9	3.0	μmf

Mechanical:

Mounting Position. Any
Maximum Overall Length 2-1/8"
Maximum Seated Length. 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" \pm 3/32"
Maximum Diameter 3-4"
Bulb T-5-1/2
Base Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW 7CM

Pin 1 - Grid No.1
Pin 2 - Cathode
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Grid No.3,
Internal
Shield

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts
GRID-No.2 (SCREEN) SUPPLY VOLTAGE. 300 max. volts
GRID-No.2 VOLTAGE. See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section
PLATE DISSIPATION. 2 max. watts
GRID-No.2 INPUT:
For grid-No.2 voltages up to 150 volts . . 0.5 max. watt
For grid-No.2 voltages between 150
and 300 volts. See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section

^o With external shield JETEC No.316 connected to cathode.

← Indicates a change.

MAR. 1, 1955

TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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SHARP-CUTOFF PENTODE

→ PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode . 200 max. volts
 Heater positive with respect to cathode . 200[▲]max. volts

Typical Operation and Characteristics:

Plate Voltage	200	volts
Grid No.3 (Suppressor).	<i>Connected to cathode at socket</i>	
Grid-No.2 Voltage	150	volts
Cathode-Bias Resistor	180	ohms
Plate Resistance (Approx.)	0.6	megohm
Transconductance	6200	μ mhos
Grid-No.1 Voltage (Approx.) for plate current of 10 μ amp.	-8	volts
Plate Current	9.5	ma
Grid-No.2 Current	2.8	ma

▲ The dc component must not exceed 100 volts.

→ indicates a change.

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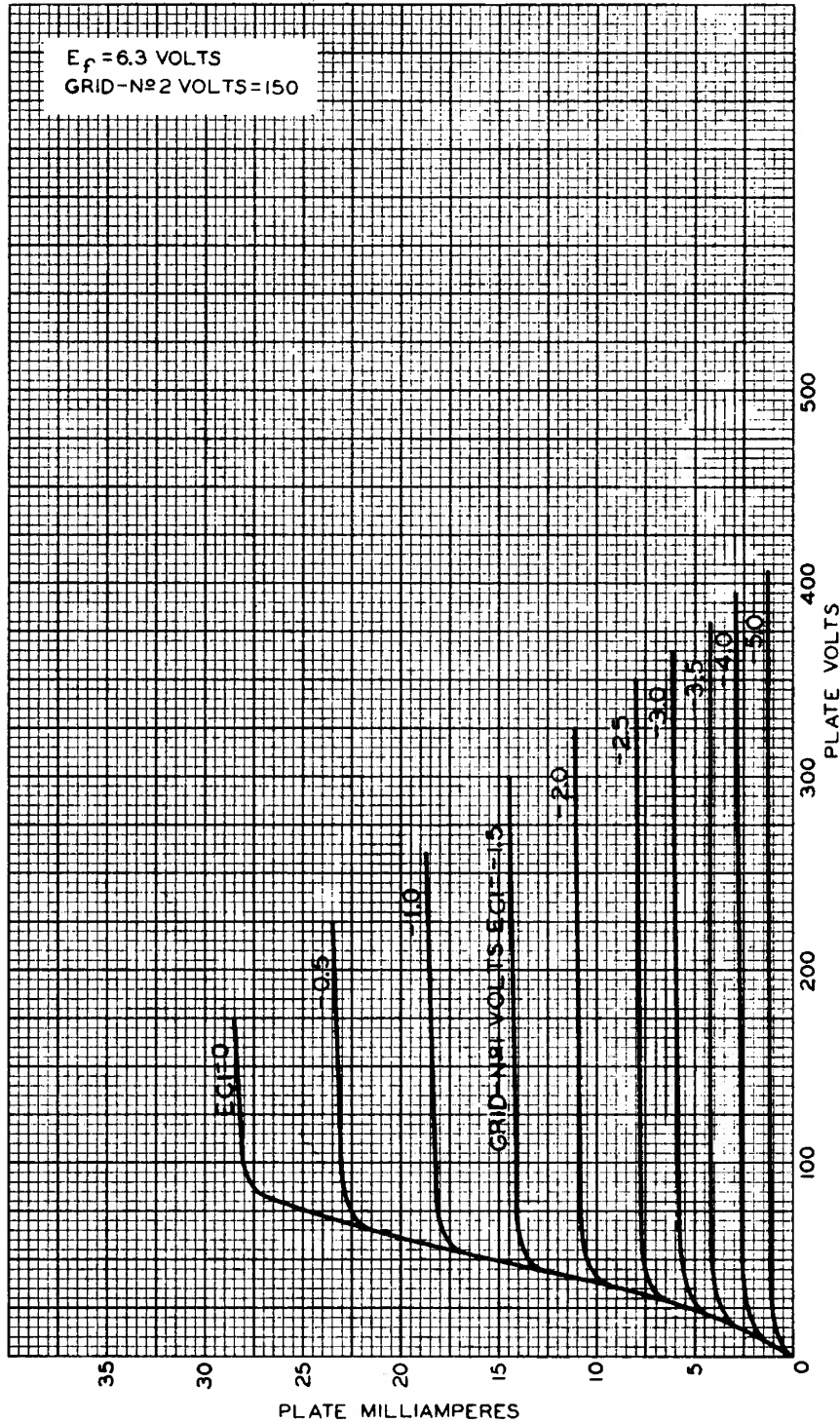
DATA



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AVERAGE PLATE CHARACTERISTICS



SEPT. 30, 1949

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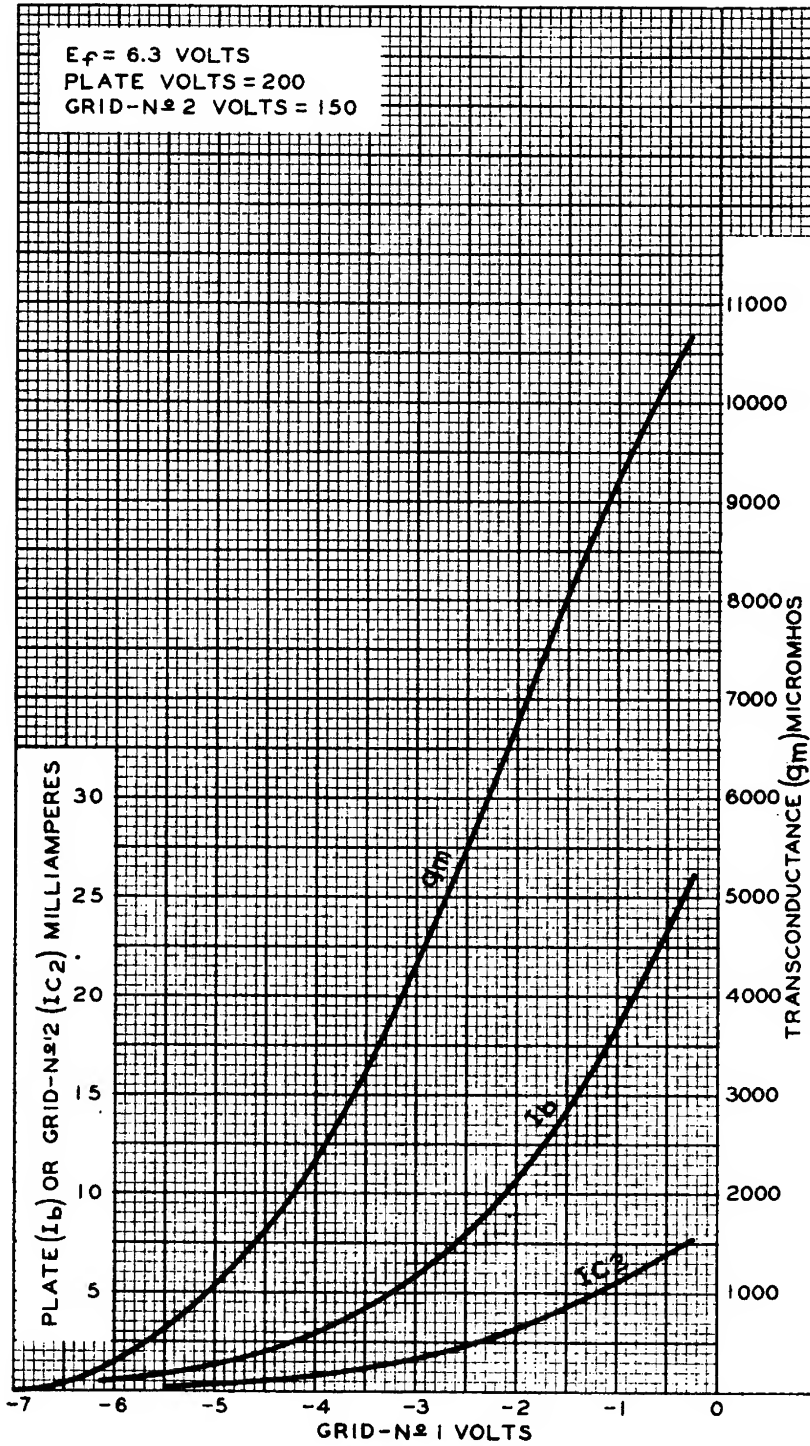
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AVERAGE CHARACTERISTICS



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92CM-7375